PTO/SB/05 (03-01)

Approved for use through 10/31/2002. OMB 0651-0032

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UTILITY PATENT APPLICATION TRANSMITTAL

(Only for new nonprovisional applications under 37 CFR \S 1.53(b))

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|--|--|--------------|--|--|--|--|--|
| Attorney Docket No. | | 1875.1760001 | | | | | |
| First Inventor | | Jes THYSSEN | | | | | |
| | Efficient Excitation Quantization in a Noise Feedback. | | | | | | |

Express Mail Label No.

| | | | | Applicant Commission of But | | | | | | | |
|--|---|---|--|---|--|--|--|--|--|--|--|
| APPLICATION ELEMENTS See MPEP chapter 600 concerning utility patent application contents | | | AD | DR. | Assistant Commissioner for Patents Box Patent Application Washington, DC 20231 | | | | | | |
| | × | Fee Transmittal Form (e.g., PTO/SB/17) (Submit an original, and a duplicate for fee processing) Applicant claims small entity status. See 37 CFR 1.27. | CD-ROM or CD-R in duplicate, large table or Computer Program (Appendix) Nucleotide and/or Amino Acid Sequence Submission (if applicable, all necessary) | | | | | | | | |
| 3. | ⊠ | Specification [Total Pages 108] Operferred arrangement set forth below) Descriptive title of the Invention Cross Reference to Related Applications Statement Regarding Fed sponsored R & D Reference to sequence listing, a table, or a computer program listing appendix Background of the Invention Brief Summary of the Invention Brief Description of the Drawings (if filed) | a. | | | | | | | | |
| | | - Detailed Description - Claum(s) - Abstract of the Disclosure | 9. 10. | ⊠ ⊠ | | | | | | | |
| | | Drawings (35 U.S.C. 113) [Total Sheets 36] | | | (when there is an assignee) | | | | | | |
| 5. | | n or Declaration [Total Pages] a. ☑ Newly executed (original or copy) | 11. 12. | | English Translation Document (if applicable) Information Disclosure | | | | | | |
| | b. Copy from a prior application (37 CFR 1.63(d)) | | | | Statement (IDS)/PTO-1449 Citations | | | | | | |
| | | i. DELETION OF INVENTOR(S) | 13. Preliminary Amendment 14. Two (2) Return Receipt Postcards (MPEP 503) | | | | | | | | |
| | | Signed statement attached deleting inventor(s) named in the prior application, see 37 CFR §§ 1.63(d)(2) and 1.33(b). | 15. | | (Should be specifically itemized) | | | | | | |
| 6. | 6. Application Data Sheet. (See 37 CFR 1.76) | | | | 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(1). Applicant must attack form PTO/SB/35 or its equivalent. | | | | | | |
| | | | | 17. Authorization under 37 C.F.R. § 1.136(a)(3) | | | | | | | |
| L | | | | | Other: The name of the assignee is: Broadcom Corporation | | | | | | |
| Fo | 18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment, or in an Application Data Sheet under 37 CFR 1.76. Continuation Divisional Continuation-in-Part (CIP) of prior application No:/ | | | | | | | | | | |
| F | | 19. CORRESPO | - | _ | | | | | | | |
| | Customer No. 26111 Customer No. 26111 26111 PATENT TRADEMARK OFFICE | | | | | | | | | | |
| Λ | VAME | STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C. | | | | | | | | | |
| | Attorneys at Law | | | | | | | | | | |
| 1 | VAME | (Print/Type) Albert J. Fasulo, II | | R | Registration No. (Attorney/Agent) 43,607 | | | | | | |
| - | SIGNATURE Quert Fooule R Date February 28, 2002 | | | | | | | | | | |
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Robert Greene Sterne Edward J Kessler Jorge A. Goldstein David K S. Cornwell

Judith U. Kim Timothy J. Shea, Jr Patrick E. Garrett Jeffery T. Helvey Heidi L. Kraus Donald R Banowit Peter A. Jackman Molly A. McCall Teresa U. Medler rev S. Weaver Kendrick P Patter

A. Wood Joseph S. Ostroff Frank R. Cottingham* Christine M. Lhulier Rae Lynn Prengaman Iane Shershenovich* Lawrence J Carroll

Senior Counsel Samuel L. Fox Kenneth C. Bass III Registered Patent Agents Karen R Markowicz Andrea J Kamage Nancy J. Leith Joseph M. Conrad III Ann E. Summerfield Helene C. Carlson Gaby L. Longsworth Matthew J. Dowd Aaron L Schwartz Angelique G Uy Boris A Matvenko Mary B. Tung



February 28, 2002

WRITER'S DIRECT NUMBER: (202) 312-7261 INTERNET ADDRESS: AFASULO@SKGF.COM

Box: Patent Application

Commissioner for Patents Washington, D.C. 20231

Re:

U.S. Non-Provisional Utility Patent Application under 37 C.F.R. § 1.53(b)

Appl. No. To Be Assigned; Filed: Herewith

Efficient Excitation Quantization in a Noise Feedback Coding System

Using Correlation Techniques

Inventors:

Jes THYSSEN et al.

Our Ref:

1875.1760001

Sir:

The following documents are forwarded herewith for appropriate action by the U.S. Patent and Trademark Office:

- 1. PTO Fee Transmittal (Form PTO/SB/17);
- 2. PTO Utility Patent Application Transmittal (Form PTO/SB/05);
- 3. U.S. Utility Patent Application entitled:

Efficient Excitation Quantization in a Noise Feedback Coding System Using **Correlation Techniques**

and naming as inventors:

Jes THYSSEN

Juin-Hwey CHEN

the application consisting of:

a. A specification containing:

Sterne, Kessler, Goldstein & Fox PLLC : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 (202.371.2540 : www.skgf.com

Commissioner for Patents February 28, 2002 Page 2

- i. 92 pages of description prior to the claims;
- ii. <u>15</u> pages of claims (<u>44</u> claims <u>6</u> Independent);
- iii. a one (1) page abstract;
- b. <u>36</u> sheets of drawings: (Figs. <u>1, 1A, 2, 2A, 3-5, 5A, 6, 6A, 6B, 7-12, 13A-13E, 14A-14E, 15A, 15B, 16A, 16B, 17-21);</u>
- c. An original executed Declaration; and
- d. An Application Data Sheet (37 C.F.R. § 1.76).
- 4. Authorization to Treat a Reply As Incorporating An Extension of Time Under 37 C.F.R. § 1.136(a)(3);
- 5. Recordation Form Cover Sheet;
- 6. An original executed Assignment to <u>Broadcom Corporation</u>, recordation of which is hereby respectfully requested;
- 7. An original executed Power of Attorney from Assignee;
- 8. A Certificate Under 37 C.F.R. § 3.73(b) from Assignee with a copy of the Assignment attached;
- 9. Two (2) return postcards; and
- 10. Our check no. 34145 for \$1,464.00 to cover:

\$740.00 Filing fee for patent application;

\$684.00 Fee for excess claims; and

\$ 40.00 Assignment recordation fee.

It is respectfully requested that, of the two attached postcards, one be stamped with the filing date of these documents and returned to our courier, and the other, prepaid postcard, be stamped with the filing date and unofficial application number and returned as soon as possible.

Commissioner for Patents February 28, 2002 Page 3

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.

Albert J. Fasulo, II Attorney for Applicants Registration No. 43,607

allen Fasilite

Enclosures

P:\USERS\Dcrooks\AJF file\1875\176.1\non.prov. filing pto cvr ltr

To Be Assigned

Complete if Known

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Application Number

FEE TRANSMITTAL for FY 2002

Herewith Filing Date Jes THYSSEN First Named Inventor To Be Assigned **Examiner Name** Patent fees are subject to annual revision. **Group Art Unit** To Be Assigned Attorney Docket No. 1875.1760001

| TOTAL AMOUNT OF PAYMENT (\$ 1,464.00 | | | | | | Attor | Attorney Docket No. 1875.1760001 | | | | |
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| Deposit Account Name Stern | e, Kessler, Goldstein & l | Fox P.L.L.C. | 105 | 130 | 205 | 65 | Surcharge - late filin | g fee or oath | | | |
| Charge Any Additional Fee Required Under 37 CFR §§ 1.16 and 1.17 Applicant claims small entity status See 37 CFR 1.27 | | | 127 | 50 | 227 | 25 | Surcharge - late provision | - late provisional filing fee or cover sheet | | | |
| | | | 139 | 130 | 139 | 130 | Non-English spec | ification | | | |
| | | | 147 | 2,520 | 147 | 2,520 | For filing a reques | or filing a request for ex parte reexamination | | | |
| | | | 112 | 920* | 112 | 920* | Requesting publication | | | | |
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| Check Credit card Money Order Other* Clarge any deficiencies or credit any overpayments in the fees or fee claudiations of Parts 1, 2 and 3 below to Deposit Account No 19-0036 | | | 115 | 110 | 215 | 55 | Extension for reply | sion for reply within first month | | | |
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| SUBTOTAL (1) | (\$) | 740 00 | | | 242 | | | | • | | |
| SUBTUTAL(I) | (4) | | 143 | | 243 | | | | | | |
| | | | 144 | | 244 | | | | | | |
| 20 | | | 122 | | 122 | 130 | Petitions to the C | ommissioner | | | |
| 2. EXTRA CLAIM FEE | S Fee from | | 123 | 3 130 | 123 | 3 130 | Petitions related | to provisional | applications | | |
| | Extra below | Fee Paid | 126 | 180 | 126 | 180 | Submission of Inf | formation Disc | closure Stmt | | |
| Total Claims <u>44</u> - 20 Indep. Claims <u>6</u> - | | | 581 | 1 40 | 481 | 40 | Recording each property (times n | patent assignr umber of prop | ment per perties) | 40.00 | |
| Multiple Dependent | | _ = | 146 | 3 740 | 246 | 370 | Filing a submissi (37 CFR 1.129(a | on after final r | rejection | | |
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| SUBMITTED BY | | | | | | | | | | | |
| Name (Print/Type) Albert J. Fasulo, ii | | | | Registration (Attorney/Agent) | | | 202-371-2600 Telephone | | | 00 | |
| Signature Cubert & would II | | | | | | | | Date February 28, 2002 | | | |
| WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. P:\USERS\Dcrooks\AJF file\1875\176.1\non.prov. filing fee transSKGF Rev. 10/01/01 mase | | | | | | | | | | | |